

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/05/2003

MITCHELL W. SHAPIRO MILES & STOCKBRIDGE P.C. 1751 PINNACLE DRIVE, SUITE 500 MCLEAN, VA 22102-3833 EXAMINER

NATNITHITHADHA, NAVIN

ART UNIT CLASS-SUBCLASS

600-485000

DATE MAILED: 06/05/2003

3736

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/763,657 02/26/2001 Martin C. Baruch A-9001B 8702

TITLE OF INVENTION: APPARATUS AND METHOD FOR MEASURING PULSE TRANSIT TIME

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	09/05/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

1. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and I/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450 (703)746-4000 **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I

06/05/2003

MITCHELL W. SHAPIRO MILES & STOCKBRIDGE P.C. 1751 PINNACLE DRIVE, SUITE 500 MCLEAN, VA 22102-3833

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name (Signature (Date

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763.657	02/26/2001	Martin C. Baruch	A -000 P	8702

TITLE OF INVENTION: APPARATUS AND METHOD FOR MEASURING PULSE TRANSIT TIME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$0	\$1300	09/05/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
NATNITHITHADHA, NAVIN 3736		3736	600-485000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the patent from the names of up to 3 registered	patent attorneys	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			or agents OR, alternatively, (2) the name of a single firm (having as a member a registered		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			attorney or agent) and the nar registered patent attorneys or ag is listed, no name will be printed.	ents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

	•			
Please check the appropriate assignee category or categories (will not	be printed on the patent)	☐ individual	☐ corporation or other private group entit	ty 🖸 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amount	of the fee(s) is en	closed.	
☐ Publication Fee	Payment by credit card	l. Form PTO-2038	3 is attached.	
Advance Order - # of Copies	☐ The Commissioner is I Deposit Account Numbe	ereby authorized	by charge the required fee(s), or credit any (enclose an extra copy of this form).	overpayment, to
Commissioner for Patents is requested to apply the Issue Fee and Publ	ication Fee (if any) or to re	apply any previo	usly paid issue fee to the application identi	fied above.
(Authorized Signature) (Date)				
NOTE; The Issue Fee and Publication Fee (if required) will not other than the applicant; a registered attorney or agent; or the as interest as shown by the records of the United States Patent and Trad	signee or other party in emark Office.			
This collection of information is required by 37 CFR 1.311. The instance obtain or retain a benefit by the public which is to file (and by the application. Confidentiality is governed by 35 U.S.C. 122 and 37 CF estimated to take 12 minutes to complete, including gathering, prep completed application form to the USPTO. Time will vary depen case. Any comments on the amount of time you require to consuggestions for reducing this burden, should be sent to the Chief Patent and Trademark Office, U.S. Department of Commerce 22313-1450. DO NOT SEND FEES OR COMPLETED FORM SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1	e USPTO to process) an R 1.14. This collection is aring, and submitting the ding upon the individual mplete this form and/or information Officer, U.S. e, Alexandria, Virginia S TO THIS ADDRESS.			

TRANSMIT THIS FORM WITH FEE(S)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,657	02/26/2001	Martin C. Baruch	A-9001B	8702
75	90 06/05/2003		EXAMIN	ER
MITCHELL W. SHAPIRO MILES & STOCKBRIDGE P.C.			NATNITHITHADHA, NAVIN	
	DRIVE, SUITE 500		ART UNIT	PAPER NUMBER
MCLEAN, VA 22102-3833 UNITED STATES			3736	a
OMITED STATES			DATE MAILED: 06/05/2003	9

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,657	02/26/2001	Martin C. Baruch	A-9001B 8702	
75	90 06/05/2003		EXAMIN	ER
MITCHELL W. SHAPIRO MILES & STOCKBRIDGE P.C.		NATNITHITHADHA, NAVIN		
• =	ORIVE, SUITE 500		ART UNIT	PAPER NUMBER
MCLEAN, VA 221 UNITED STATES			3736	
UNITED STATES			DATE MAILED: 06/05/2003	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			(
<i>Y</i>	Application No.	Applicant(s)			
Notice of Allowability	09/763,657	BARUCH ET AL.			
Notice of Anowability	Examiner	Art Unit			
	Navin Natnithithadha	3736			
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in (5) or other appropriate commu RIGHTS. This application is s	this application. If not included	TINO		
 This communication is responsive to <u>May 19, 2003</u>. The allowed claim(s) is/are <u>1-8 and 10-25</u>. The drawings filed on <u>26 February 2001</u> are accepted by Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 	y the Examiner. inder 35 U.S.C. § 119(a)-(d) or	(1).			
1. Certified copies of the priority documents ha	ve been received		•		
2. Certified copies of the priority documents ha		a No			
 Copies of the certified copies of the priority of th			rom the		
* Certified copies not received: 5. ☑ Acknowledgment is made of a claim for domestic priority (a) ☐ The translation of the foreign language provisional 6. ☐ Acknowledgment is made of a claim for domestic priority Applicant has THREE MONTHS FROM THE "MAILING DATE"	application has been received under 35 U.S.C. §§ 120 and/or	121.			
below. Failure to timely comply will result in ABANDONMENT of the control of the	of this application. THIS THRE	E-MONTH PERIOD IS NOT EXTI	ENDABLE.		
will of the Property Air Eloanon (1 10-102) which gives rea	ason(s) why the bath or declara	ition is deficient.			
 B. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspoton 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing 					
(c) \(\sigma\) including changes required by the attached Examine	er's Amendment / Comment or	in the Office action of Bones No.	ner.		
(c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
Notice of References Cited (PTO-892) □ Notice of Draftperson's Patent Drawing Review (PTO-948) □ Information Disclosure Statements (PTO-1449), Paper No. □ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview 6☐ Examiner	nformal Patent Application (PTO- Summary (PTO-413), Paper No s Amendment/Comment s Statement of Reasons for Allowa	·		

Application/Control Number: 09/763,657

Art Unit: 3736

EXAMINER'S STATEMENT FOR REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

In regards to claims 1-8 and 20-25, the prior art does not teach a method or apparatus for measuring pulse transit time of a living subject, including: selecting corresponding points of the first and second pulse wave signals based on results of the differentiating of the first and second pulse wave signals; and detecting a time delay between the selected points.

In regards to claims 1-8 and 20-25, the prior art does not disclose an apparatus that measures pulse transit time of a living subject, including: at least one of the first and second sensors being a fiberoptic sensor including a fused-fiber coupling region having at least a portion constructed such that it can be deflected without the coupling region being put under tension or a substantially U-shaped, fused-fiber coupling region.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Navin Natnithithadha whose telephone number is (703) 305-2445. The examiner can normally be reached on Monday-Friday, 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (703) 308-3130. The fax phone

Application/Control Number: 09/763,657

Art Unit: 3736

numbers for the organization where this application or proceeding is assigned are (703) 305-3590 for regular communications and (703) 305-3591 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

Navin Natnithithadha Patent Examiner GAU 3736 June 4, 2003

MAX F. HINDENBURG

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700